

A HIGH PERFORMANCE CAREER & TECHNICAL SCHOOL

Building Facts

- ▶ 296,000 square foot Building Area
- Comprehensive College Preparatory Technical High School
- Nine Career Pathways
- ▶ 816 Students Grade 9-12
- Special Education & ESL Spaces
- Community Partner & Parent Volunteer Spaces
- Auditorium, Performing Arts, TV Studio and 65,00 square foot Field House
- Wireless Library/Media Research Center
- Demonstration PV Solar and Wind Turbine Systems

Design Accomplishments

- High Performance Green School Includes Re-Use of Existing 72,000 square foot Building
- School Designed as an Interactive Learning Laboratory
- Designed to Operate 41% more Efficiently than Energy Code
- Total Program Cost \$28 Million less than Alternative Design Options
- Projected Utility Rebate \$110,000
- Projected Present Value Annual Energy Saving \$190,000
- Projected Annual Water use Saving of 139,000 gallons

Northeast CHPS Protocol

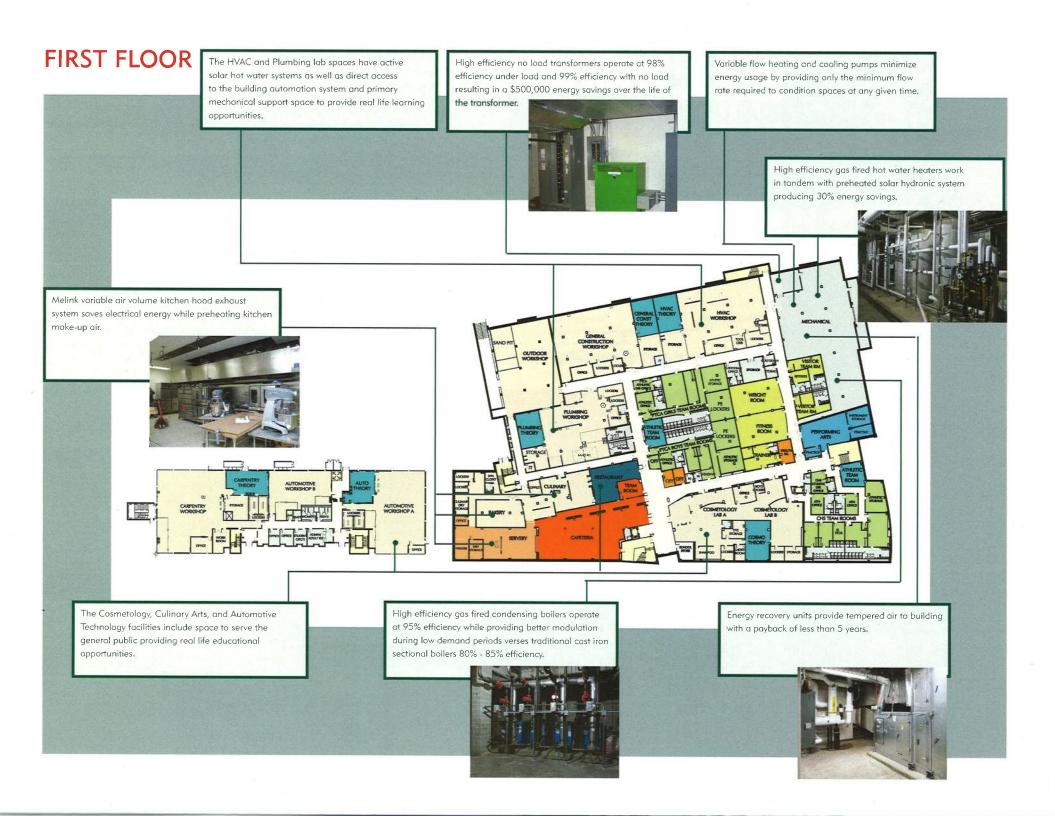
Total	24 pts (20 pts required)
Innovation	2 pts
Site Selection & Layout	5 pts
Materials	3 pts
Water Efficiency	3 pts
Energy Efficiency	6 pts
Indoor Environmental Quality	3 pts
Policy & Operations	2 pts



The S/L/A/M Collaborative



ARCHITECTS . ENGINEERS . FACILITIES SOLUTIONS



FRICKER STREET MAIN ENTRANCE



AUDITORIUM

Faux windows in exterior façade of Auditorium contain programmable LED lighting system capable of displaying continuously varying hues of up to 16 million hues at varying degrees of intensity and sequencing. The system is integrated into the Graphics Communications program for use by the students,



SECOND FLOOR

Daylight scovenging systems are used throughout the school automatically adjusting lighting levels to correspond with available natural light and include power on - off feature to correspond with a spaces current occupancy.

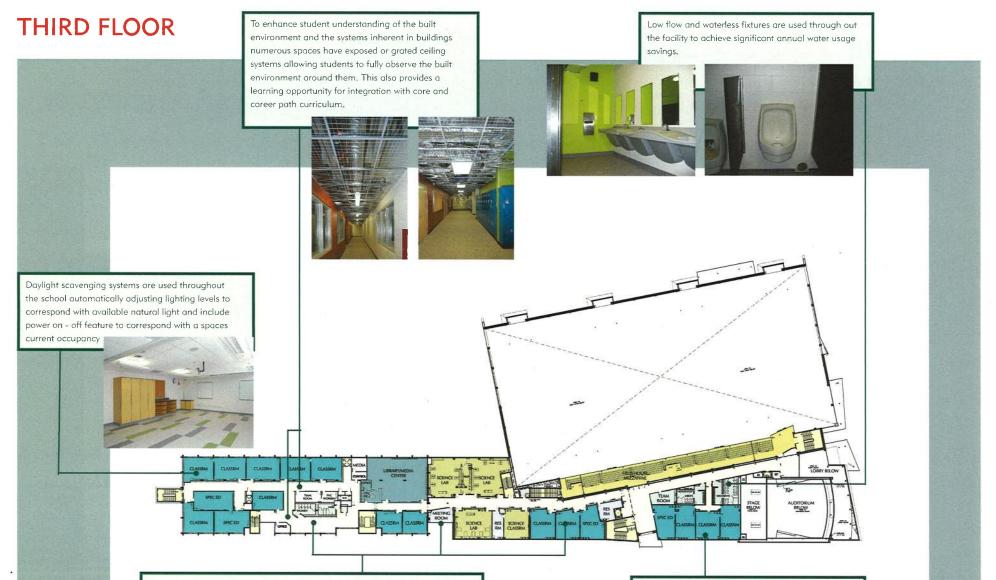








An internet based "Education for Sustainability" system is being provided that describes the building sustainable design and energy savings features through publicly accessible touch screen kiosks. Real time energy savings data is also provided. Additionally the system is accessible through the schools LAN for use by any teacher or student for inclusion in curriculum. Available data will include energy usage by type, water usage, dynamic temperature of key energy savings equipment such as the solar-thermal hot water system, and the energy output of the roof mounted demonstration wind turbine and photovoltaic systems.



The school design accommodates collaborative team teaching and small group independent learning through a variety of ways including communicating classrooms, small group work rooms, commons spaces for small group collaboration and a wireless Library Media Research center.



High Efficiency lighting systems are used throughout the facility saving over \$100 per lamp with over 2,500 light fixtures